

OREGON HEALTH & SCIENCE UNIVERSITY
Hospitals and Clinics
Point of Care

iSTAT Maintenance Procedure

Data Transfer

1. After every patient the iSTAT will need to be downloaded so the results post to the patient's chart in Epic.
2. QC monitoring and MRN verification will be performed by POCT.

Weekly or As Needed:

1. Clean the exterior of the analyzer with a soft cloth dampened with a mild detergent or cleaning solution, or 30% isopropyl alcohol solution.
2. Do not spray or pour detergents or other solutions directly onto the analyzer.
3. Wipe the entire surface of the analyzer, including the keypad.

Quarterly QA (Performed by Point of Care):

1. Quarterly, review the liquid QC log to monitor for trends and shifts and adjust ranges if needed.

Every 6 Months (Performed by Point of Care):

1. Perform iSTAT Thermal Probe Temperature Check:
 - a. Turn on instrument and hit 'Menu.'
 - b. Press '3' Quality Tests
 - c. Press '4' Simulator
 - d. Insert the external simulator.
 - e. When the 'PASS' result is displayed, press '.' key.
 - f. The iSTAT displays the difference between thermal probes.
 - g. Acceptable criteria: Thermal difference between the probes is within $\pm 0.1^{\circ}\text{C}$.
 - h. Unacceptable results:
 - i. Difference between probes is greater than $\pm 0.1^{\circ}\text{C}$.
 - ii. FAIL appended with either a 'T', difference exceeds 0.25°C , or 't', average.
 - iii. Value of '._._' indicates unstable temperature reading.
 - o Wait 15 minutes for the iSTAT and external simulator to warm to ambient temperature before repeating.
 - i. Document thermal probe check result in the Thermal Probe Check Log.

2. Calibration Verification is performed to verify the instrument's measurable range for the tested analytes.
3. Patient correlations are performed against the Core Lab analyzer to ensure consistent results within the institution.

Revised 1/27/11